

CURRICULUM VITAE

Laurențiu Leuștean

PERSONAL DATA

- Birth Date: January 16, 1971, Drobeta-Turnu Severin, Romania
- Nationality: Romanian
- Family status: Married to Ioana Leuștean, with whom I have three children (Maria, Andrei, Ștefan)
- E-mail: laurentiu.leustean@unibuc.ro, laurentiu.leustean@ilds.ro
- Web page: <http://cs.unibuc.ro/~lleustean/>
- [Google Scholar profile](#)
- ResearcherID [A-3916-2010](#)
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AFFILIATION

Professor

Faculty of Mathematics and Computer Science, University of Bucharest,
Academiei 14, P.O. Box 010014, Bucharest, Romania

Senior Researcher

Simion Stoilow Institute of Mathematics of the Romanian Academy (IMAR),
P.O. Box 1-764, RO-014700, Bucharest, Romania

President

Institute for Logic and Data Science (ILDS)
Popa Tatu 18, Bucharest, Romania

EDUCATION

- May 16, 2013: Habilitation in Mathematics, IMAR, Romania
- October 16, 2009: Habilitation in Mathematics, Technische Universität Darmstadt, Germany
- May 19, 2004: PhD in Mathematics, University of Bucharest, Romania
- 1996 - 1997: Master in Computer Science, Faculty of Mathematics and Computer Science, University of Bucharest, Romania
- 1990-1995: Undergraduate Studies in Computer Science, Faculty of Mathematics and Computer Science, University of Bucharest, Romania

EMPLOYMENT

- October 1, 2014 - present: Professor, Faculty of Mathematics and Computer Science, University of Bucharest, Romania
- January 1, 2014 - present: Senior Researcher, Simion Stoilow Institute of Mathematics of the Romanian Academy (IMAR), Bucharest, Romania
- October 1, 2003 - December 31, 2013: Scientific Researcher, Simion Stoilow Institute of Mathematics of the Romanian Academy (IMAR), Bucharest, Romania
- April 1, 2004 - October 31, 2009: Postdoctoral Position (Wissenschaftlicher Mitarbeiter), Department of Mathematics, Technische Universität Darmstadt, Germany
- June 1, 2000 - September 31, 2003: Researcher, National Institute for Research and Development in Informatics (ICI), Bucharest, Romania
- November 1, 1995 - May 31, 2000: Programmer, National Institute for Research and Development in Informatics (ICI), Bucharest, Romania

ADMINISTRATIVE DUTIES

- May 2022 - present: Founding Member and President of the Institute for Logic and Data Science (ILDS), Bucharest, Romania
- October 2020 - present: Director of the Research Center for Logic, Optimization and Security (LOS), Department of Computer Science, Faculty of Mathematics and Computer Science, University of Bucharest, Romania
- May 2020 - present: Member of the Scientific Council of IMAR, Bucharest, Romania

- May 2020 - October 2020: Member of the Mathematics Committee of CNCS (National Council of Scientific Research), Romania
- January 2016 - December 2019: Vice-Rector of the University of Bucharest and Director of ICUB (Research Institute of the University of Bucharest), Romania
- December 2015 - September 2019: Member of the Senate of the University of Bucharest, Romania

AWARDS

- The 2010 Simion Stoilow Prize of the Romanian Academy (awarded in 2012)

FELLOWSHIPS

- October 16, 2008 - February 13, 2009 and September 14 - October 31, 2009: Oberwolfach Leibniz Fellowship, Mathematisches Forschungsinstitut Oberwolfach, Germany
- April 27-29, 2006: Horizons of Truth: Logics, Foundations of Mathematics, and the Quest for Understanding the Nature of Knowledge. Gödel Centenary 2006. An International Symposium Celebrating the 100th Birthday of Kurt Gödel, Vienna, Austria
Young Scholar Competition, chosen between the 10 scholars (out of 63 applicants) to attend the meeting and present their project proposals
- July 7 - September 14, 2003: NASA Ames/RIACS 2003 Summer Student Research Program (Second Year), organized by NASA Ames Research Center and the Research Institute for Advanced Computer Science (RIACS), Moffet Field, CA, USA
- June 10 - August 16, 2002: NASA Ames/RIACS 2002 Summer Student Research Program, organized by NASA Ames Research Center and the Research Institute for Advanced Computer Science (RIACS), Moffet Field, CA, USA
- January 8 - June 7, 2002: Marie Curie Fellowship (mobility research training grant from the European Community) at BRICS (Basic Research in Computer Science) International PhD School, University of Aarhus, Denmark

GRANTS, RESEARCH PROJECTS

- Principal Investigator of the Research project *Matching Logic, Cryptography and Blockchains*, Institute for Logic and Data Science (ILDS) - Pi Squared (08.2024-)

- Principal Investigator of the Research project *Matching Logic and Lean: The K Connection*, Institute for Logic and Data Science (ILDS) - Runtime Verification (RV) (04.2023 -)
- Member of ROAR-NET (Randomised Optimisation Algorithms Research Network COST Action CA22137), WG3 (09.2024-)
- Member of EuroProofNet (European Research Network on Formal Proofs COST action CA20111), WG3 and WG4 (01.2023 -)
- Principal Investigator of the Research project *Matching Logic and Lean - Foundations*, Institute for Logic and Data Science (ILDS) - Runtime Verification (RV) (07.2022 - 03.2023)
- Project Manager of the Grant *IT&C for Research*, CNFIS-FDI-2019-0186, Romania (05.2019 - 12.2019)
- Project Manager of the Grant *UB Research +*, CNFIS-FDI-2018-0116, Romania (05.2018 - 12.2018)
- Member of the Grant *ArchaeoScience#RO*, Romanian Ministry of Research and Innovation, 15PFE/2018 (2018-2019)
- Principal Investigator of the Grant *Proof mining in metric analysis, geometric group theory and ergodic theory*, CNCS-UEFISCDI Romania, PN-II-ID-PCE-2011-3-0383 (2011 - 2016)
- Member (as mentor) of the Grant *Topics in nonlinear analysis and ergodic theory on uniformly convex geodesic spaces*, CNCS - UEFISCDI Romania, PN-II-RU-PD-2012-3-0152 (2013 - 2015)
- Member of the Grant *Optimized program synthesis from proofs*, CNCS Romania, PN-II-RU-TE-2011-3-0122 (2011 - 2013)
- Member of Deutsch-Südafrikanisches Kooperationsprojekt *From continuity to computability*, DFG (Deutsche Forschungsgemeinschaft) (2007 - 2009)
- Member of Deutsch-Russisches Kooperationsprojekt *Berechnungen über nicht diskreten Strukturen: Modelle, Semantik, Komplexität*, DFG (Deutsche Forschungsgemeinschaft) (2006 - 2008)

SCIENTIFIC VISITS

- November 2 - 9, 2024: University of Lisbon, Portugal (invited by Fernando Ferreira)

- May 19 - 24, 2024: Mathematisches Forschungsinstitut Oberwolfach, Germany (invited by Pedro Pinto)
- May 8 - 13, 2023: University of Lisbon, Portugal (invited by Fernando Ferreira)
- July 9 - 12, 2018: University of Trieste, Italy (invited by Andrea Sgarro)
- October 16 - 20, 2017: University of Lisbon, Portugal (invited by Fernando Ferreira)
- September 16 - 20, 2016: Middlesex University London, UK (invited by Andrei Popescu)
- September 04 - 11, 2016: Université Paris-Est Créteil, France (invited by Cătălin Dima)
- April 01 - 08, 2013: Universidad de Sevilla, Spain (invited by Genaro López-Acedo)
- November 1 - 10, 2012: Technische Universität Darmstadt, Germany (invited by Ulrich Kohlenbach)
- April 19 - May 19, 2012: University of Illinois at Urbana-Champaign, USA (invited by Grigore Roşu)
- May 25 - June 14, 2010: Department of Mathematical Analysis, University of Seville, Spain (invited by Genaro López-Acedo)
- March 1 - April 15, 2007: Max Planck Institute for Mathematics, Bonn, Germany (participation at the Trimestre on Methods of Proof Theory)
- February 16 - 28, 2001: Dipartimento di Matematica e Informatica, Università di Salerno, Italy (invited by Antonio Di Nola)

PROFESSIONAL ACTIVITIES

- Member of:
 - American Mathematical Society (AMS) (2003 - 2023)
 - Association for Symbolic Logic (2004 - 2009 and 2013 - present)
 - Proof Society (2020 - present)
 - Deutsche Vereinigung für Mathematische Logik und für Grundlagenforschung der Exakten Wissenschaften (DVMLG) (2010 - 2014)
 - Ad Astra (2011 - present)
- Expert evaluator for Horizon 2020 and ANCS (Romania)

- Reviewer for Mathematical Reviews (2007 - present) and Zentralblatt MATH (2010 - present)
- Member in the Scientific/Organizing Committee of:
 - Working Formal Methods Symposium (FROM 2024), Timișoara, Romania, September 16-18, 2024
 - Working Formal Methods Symposium (FROM 2023), București, Romania, September 21-22, 2023
 - ILDS Coq and Lean Autumn School 2023, București, Romania, September 18-20, 2023
 - The Tenth Congress of Romanian Mathematicians, Pitești, Romania, June 30 - July 5, 2023
 - RV/ILDS Blockchain Workshop, București, Romania, March 22-23, 2023
 - Working Formal Methods Symposium (FROM 2022), Iași, Romania, September 19-20, 2022
 - Working Formal Methods Symposium (FROM 2021), Timișoara, Romania, December 8-9, 2021
 - Working Formal Methods Symposium (FROM 2020), Cluj-Napoca, Romania, September 4-6, 2020
 - ICUB-Coq Autumn School, Bucharest, Romania, September 24-26, 2018
 - Working Formal Methods Symposium (FROM 2018), Iași, Romania, June 18-20, 2018
 - The international workshop on Graphs, Networks and Digital Humanities, Bucharest, Romania, October 9-11, 2017
 - Fuzzy Logic meets Quantum Logic: The first joint Bucharest - Cagliari Logical Meeting (BuCaL2017), Bucharest, Romania, September 25-26, 2017
 - Special Session: Logic in Computer Science, The Eighth Congress of Romanian Mathematicians, Iași, Romania, June 26 - July 1, 2014
 - Algebra and Probability in Many-Valued Logics, International Workshop on Logical and Algebraic aspects of Many-Valued Reasoning, Darmstadt, Germany, May 14-16, 2009
- Co-organizer of scientific seminars at the University of Bucharest, IMAR and ILDS: Logic Seminar (2012 - present), LOS Seminar (2021 - present), Proof Mining Seminar (2022 - present), Effective methods in metric analysis (2011-2013)
- Refereeing for Journals or Publishers: Acta Applicandae Mathematicae, Advances in Nonlinear Analysis, Analele Stiintifice ale Universitatii Ovidius Constanta, Annali dell'Universita di Ferrara Annals of the Alexandru Ioan Cuza University, Annals

of Functional Analysis, Annals of Pure and Applied Logic, Boletín de la Sociedad Matemática Mexicana, Computers and Mathematics with Applications, Fixed Point Theory and Applications, Foundations of Computational Mathematics, International Journal of Mathematics and Mathematical Sciences, Israel Journal of Mathematics, Journal of Advanced Mathematical Studies, Journal of Convex Analysis, Journal of Mathematical Analysis and Applications, Journal of Multiple-Valued Logic and Soft Computing, Journal of Optimization Theory and Applications, Journal of the European Mathematical Society, Mathematical Reports, Mathematical Structures in Computer Science, Mathematisches Zeitschrift, Nonlinear Analysis, Optimization, Optimization Letters, Proceedings of the Romanian Academy, Romanian Journal of Pure and Applied Mathematics, Rendiconti del Circolo Matematico di Palermo, SIAM Journal on Optimization, Soft Computing, Studia Logica, Transactions of the American Mathematical Society, Vietnam Journal of Mathematics, Computer Science Logic (CSL), European Analytical Philosophy Congress, Working Formal Methods Symposium (FROM) Zeitschrift für Analysis und ihre Anwendungen

SUPERVISION OF GRADUATE STUDENTS

PhD students

- Nicoleta Dumitru (University of Bucharest, 2023 - present)
- Paulo Firmino (University of Lisbon, 2022 - present; co-supervised with Fernando Ferreira)
- Horațiu Cheval (University of Bucharest, 2021 - 2024)
- Andrei Sipoș (University of Bucharest, 2015 - 2017)

PhD referee

- Flavia Chorobura (University Politehnica of Bucharest, 2024)
- Nicholas Pischke (Technische Universität Darmstadt, 2024)
- Alexandru Dragomir (University of Bucharest, 2015)
- Muhammad Aqeel Ahmad Khan (The Islamia University of Bahawalpur, 2014)
- David Ariza-Ruiz (Universidad de Sevilla, 2013)

TALKS

Invited Talks at Conferences and Workshops

- IMAR 75 - anniversary conference, Bucharest, Romania, September 27-28, 2024
- Workshop on Proof Mining 2024, Darmstadt, Germany, September 4-6, 2024
- Oberwolfach Workshop 2346: Mathematical Logic: Proof Theory, Constructive Mathematics, Mathematisches Forschungsinstitut Oberwolfach, Germany, November 12-17, 2023
- International Conference on Applied Proof Theory 2022 (APT22), Pescara, Italy, August 29–September 2, 2022
- Working Formal Methods Symposium (FROM), Timișoara, Romania, September 2-5, 2019
- Oberwolfach Workshop 1147: Mathematical Logic: Proof Theory, Type Theory and Constructive Mathematics, Mathematisches Forschungsinstitut Oberwolfach, Germany, November 16 - 22, 2014
- Topics in Geometric Group Theory, IMAR, Romania, September 29 - October 5, 2014
- IRTG Research Seminar Proof Mining and Nonlinear Analysis, Technische Universität Darmstadt, Germany, February 26 - 28, 2014
- Anniversary Conference Faculty of Sciences - 150 years, University of Bucharest, Romania, August 29 - September 1, 2013
- Workshop on Operator Theory in Metric Spaces, Department of Mathematical Analysis, Universidad de Sevilla, April 3 - 4, 2013
- 21st International Symposium on Mathematical Programming (ISMP 2012), Berlin, Germany, August 19-24, 2012,
Invited Session: Variational inequalities and optimization problems on Riemannian manifolds
- Oberwolfach Workshop 1145: Mathematical Logic: Proof Theory, Type Theory and Constructive Mathematics, Mathematisches Forschungsinstitut Oberwolfach, Germany, November 6-12, 2011
- Conference on Nonlinear Analysis and Optimization (in celebration of Alex Ioffe's 70th and Simeon Reich's 60th birthdays), Technion, Haifa, Israel, June 18-24, 2008
- Oberwolfach Workshop 0815: Mathematical Logic: Proof Theory, Constructive Mathematics, Mathematisches Forschungsinstitut Oberwolfach, Germany, April 6-12, 2008

- Conference Methods of Proof Theory in Mathematics, Max-Planck Institute for Mathematics, Bonn, Germany, June 4-9, 2007
- AMS-MAA Joint Mathematics Meetings, AMS-ASL Special Session on Logical Methods in Computational Mathematics, New Orleans, USA, January 5-8, 2007
- Horizons of Truth: Logics, Foundations of Mathematics, and the Quest for Understanding the Nature of Knowledge. Gödel Centenary 2006. An International Symposium Celebrating the 100th Birthday of Kurt Gödel, Vienna, Austria, April 27, 2006
- MAP (Mathematics, Algorithms, Proofs), 2006, Castro Urdiales, Spain, January 9-13, 2006
- Oberwolfach Workshop 0512: Mathematical Logic: Proof Theory, Type Theory and Constructive Mathematics, Mathematisches Forschungsinstitut Oberwolfach, Germany, March 20-26, 2005
- Dagstuhl Seminar 05021: MAP (Mathematics, Algorithms, Proofs), Internationales Begegnungs- und Forschungszentrum (IBFI), Schloss Dagstuhl, Germany, January 09-14, 2005
- Workshop on Proof Theory and Algorithms, ICMS (International Center for Mathematical Sciences), Edinburgh, United Kingdom, March 22-29, 2003

Invited Seminar and Colloquium Talks

- Mathematical Logic Seminar, University of Lisbon, Portugal, November 5, 2024
- Mathematical Logic Seminar, University of Lisbon, Portugal, May 12, 2023
- University of Trieste, Italy, July 9, 2018
- Mathematical Logic Seminar, University of Lisbon, Portugal, October 20, 2017
- Middlesex University London, UK, September 19, 2016
- Logic Seminar, Technische Universität Darmstadt, Germany, November 9, 2012
- Logic Seminar, Department of Mathematics, University of Illinois at Urbana-Champaign, USA, May 1, 2012
- Department of Mathematical Analysis, University of Seville, Spain, June 13, 2010
- Department of Mathematical Analysis, University of Seville, Spain, June 14, 2010
- Oberseminar mathematische Logik, Universität Bonn, Germany, October 19, 2009

- Seminaire de l'Equipe de Mathématiques Appliquées, Université Paul Verlaine-Metz, France, February 14, 2008
- Max-Planck Institute for Mathematics, Bonn, Germany, March 21, 2007
- Max-Planck Institute for Mathematics, Bonn, Germany, March 8, 2007
- NASA Ames/RIACS 2003 SSRP (Summer Student Research Program) Seminar, NASA Ames Research Center and Research Institute for Advanced Computer Science (RIACS), Moffet Field, California, USA, September 2, 2003
- Mathematical Logic Seminar, Stanford University, CA, USA, August 6, 2002
- NASA Ames/RIACS 2002 SSRP (Summer Student Research Program) Seminar, NASA Ames Research Center and Research Institute for Advanced Computer Science (RIACS), Moffet Field, California, USA, August 1, 2002
- Logic and Semantics Seminar, BRICS (Basic Research in Computer Science), University of Aarhus, Denmark, May 15, 2002

Talks at Conferences and Workshops

- Colloquium Logicum 2024, Vienna, Austria, October 7-9, 2024
- Logic Colloquium 2024, Gothenburg, Sweden, June 23-29, 2024
- Logic Colloquium 2023, Milano, Italy, June 04-10, 2023
- Logic Colloquium 2014, Vienna, Austria, July 14-19, 2014
- Logic Colloquium 2012, Manchester, Great Britain, July 12-18, 2012
- Turing Centenary Conference CIE (Computability in Europe), University of Cambridge, UK, 18 - 23.06.2012
- ICFPTA 2009 (The 9th International Conference on Fixed Point Theory and its Applications), Changhua, Taiwan, July 16 - 22, 2009
- Colloquium Logicum 2008, Darmstadt, Germany, September 10-13, 2008
- WCNA (World Congress of Nonlinear Analysis) 2008, Orlando, USA, July 2-11, 2008
- Domains VIII and Computability Over Continuous Data Types, Novo-sibirsk, Russia, September 11 - 15, 2007
- ICFPTA 2007 (The 8th International Conference on Fixed Point Theory and Applications), Chiang Mai, Thailand, July 17-22, 2007
- 13th Workshop on Logic, Language, Information and Computation (WoLLIC'2006), Stanford, CA, USA, July 18-21, 2006

Seminar Talks

- LOS Seminar, University of Bucharest, Romania, June 14 and June 23, 2021
- Logic Seminar, University of Bucharest, Romania, November 2, 2017
- Logic in Computer Science Seminar, University of Bucharest, Romania, May 16 and May 22, 2014
- Logic Seminar, IMAR, Romania, January - February 2013
- Seminar Effective methods in metric analysis, IMAR, Romania, January - April 2012
- Department of Mathematics, Technische Universität Darmstadt, Germany, November 28, 2008
- Logic Seminar, Department of Mathematics, Technische Universität Darmstadt, Germany, June 27, 2008
- Logic Seminar, Department of Mathematics, Technische Universität Darmstadt, Germany, May 25, 2007
- University of Bucharest, Romania, September 21, 2006
- AG1 Seminar, Department of Mathematics, Technische Universität Darmstadt, Germany, June 11, 2004
- Weekly Seminar Alexandru Brezuleanu, University of Bucharest, Romania, January 16 and 23, 2003
- ASE, Bucharest, Romania, September 17, 2002
- Communication Session Alexandru Brezuleanu, University of Bucharest, Romania, May 5, 2001
- Anniversary Symposium Sergiu Rudeanu, University of Bucharest, Romania, February 9, 2000
- Communication Session Grigore C. Moisil, University of Bucharest, Romania, June 19, 1998

TEACHING RECORD

Courses Taught

- *Proof mining: applications to nonlinear analysis and optimization*, Doctoral School of Mathematics, Faculty of Mathematics and Computer Science, University of Bucharest, Summer Term 2024

- *Logic for multiagent systems*, Master Security and Applied Logic, Department of Computer Science, Faculty of Mathematics and Computer Science, University of Bucharest, Winter Term 2021/2022, 2022/2023, 2023/2024
- *Mathematical and Computational Logic*, Department of Computer Science, Faculty of Mathematics and Computer Science, University of Bucharest, Winter Term 2015/2016, 2016/2017, 2017/2018, 2018/2019, 2019/2020, 2020/2021, 2021/2022, 2022/2023, 2023/2024
- *Elements of Security and Applied Logic. Module Epistemic Logic*, Department of Computer Science, Faculty of Mathematics and Computer Science, University of Bucharest, Summer Term 2022, 2023, 2024
- *Mathematical Logic*, Department of Mathematics, Faculty of Mathematics and Computer Science, University of Bucharest, Summer Term 2020, 2021, 2022
- *Advanced Logic for Computer Science*, Master Security and Applied Logic, Department of Computer Science, Faculty of Mathematics and Computer Science, University of Bucharest, Winter Term 2017/2018, 2018/2019, 2019/2020, 2020/2021
- *Mathematical Logic and Set Theory*, Department of Mathematics, Faculty of Mathematics and Computer Science, University of Bucharest, Winter Term 2018/2019
- *Techniques of Combinatorial Optimization*, Master I, Department of Computer Science, Faculty of Mathematics and Computer Science, University of Bucharest, Winter Term 2014/2015, 2015/2016, 2016/2017
- *Model Theory*, Master I, Department of Computer Science, Faculty of Mathematics and Computer Science, University of Bucharest, Summer Term 2015, 2016, 2017
- *Ergodic theory and additive combinatorics*, Department of Mathematics, SNSB, Summer Term 2013
- *Ergodic Ramsey Theory*, Department of Mathematics, SNSB, Winter Term 2010/2011
- *Analysis II* for MCS (Mathematics with Computer Science), Department of Mathematics, Technische Universität Darmstadt, Germany, Summer Term 2006, 2007
- *Analysis I* for MCS (Mathematics with Computer Science), Department of Mathematics, Technische Universität Darmstadt, Germany, Winter Term 2006/2007

Scientific Seminars

- *Effective methods in (nonlinear) ergodic theory*, Department of Mathematics, SNSB (Școala Normală Superioară București), Summer Term 2011